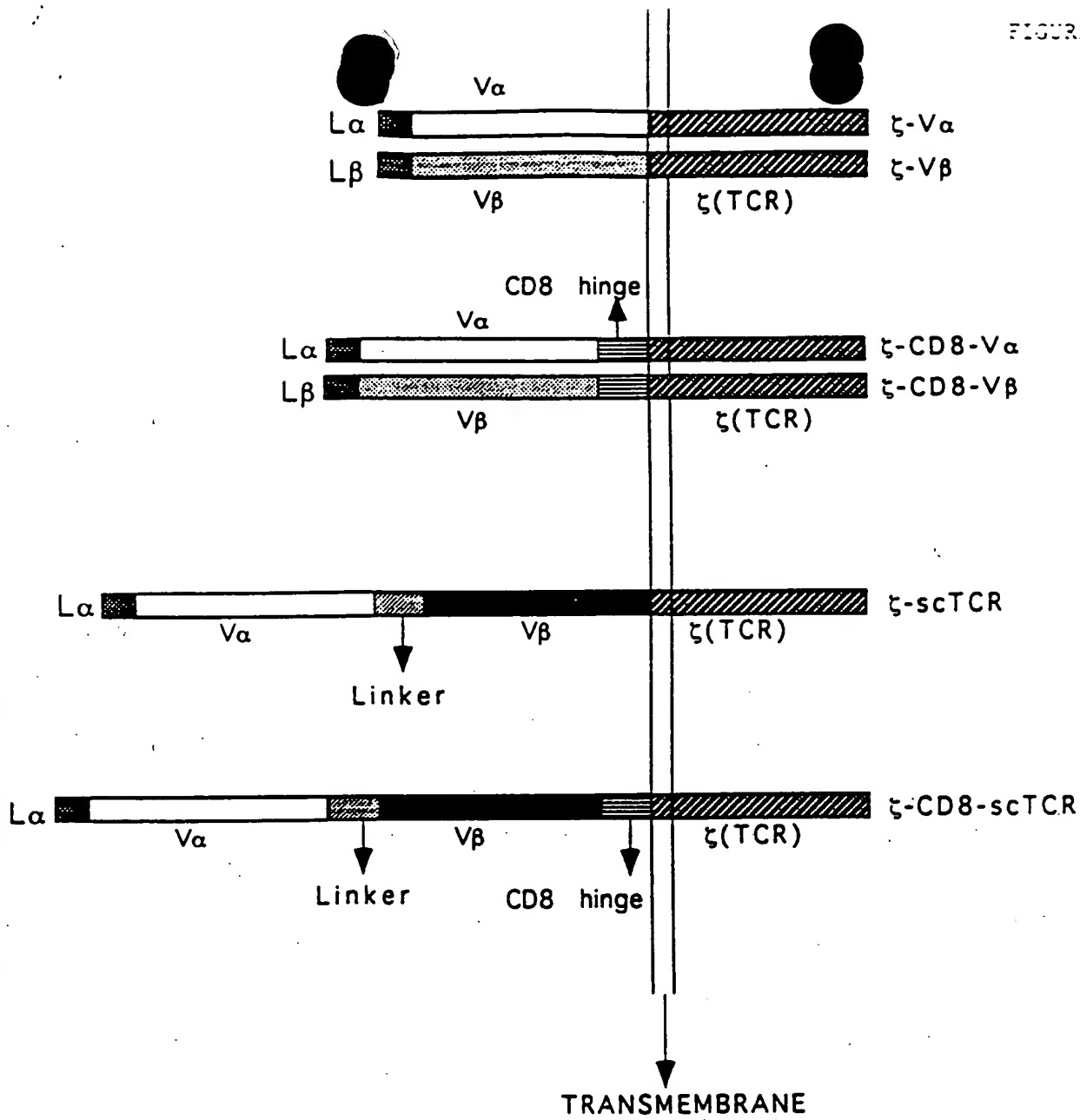
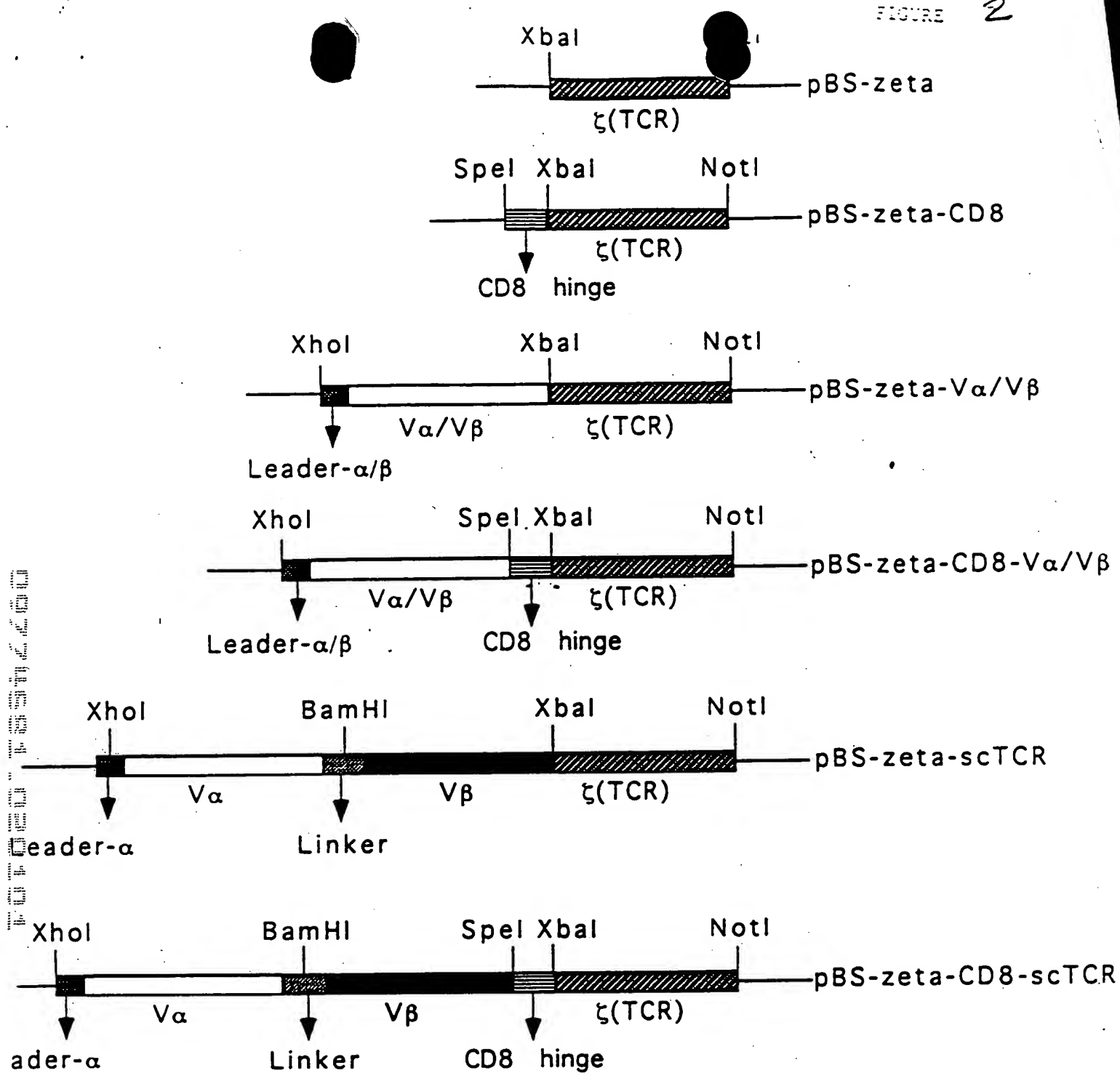


FIGURE 1

FIGURE 1





9			18			27			36			45			54		
CTC	GAG	ATG	CAG	AGG	AAC	CTG	GGA	GCT	GTG	CTG	GGG	ATT	CTG	TGG	GTG	CAG	ATT
L	E	M	Q	R	N	L	G	A	V	L	G	I	L	W	V	Q	I
63			72			81			90			99			108		
TGC	TGG	CTG	AAA	GAA	CAG	CAA	GTG	CAG	CAG	AGT	CCC	GCA	TCC	TTG	GTT	CTG	CAG
C	W	L	K	E	Q	Q	V	Q	Q	S	P	A	S	L	V	L	Q
117			126			135			144			153			162		
GAG	GGG	GAG	AAC	GCA	GAG	CTC	CAG	TGT	AGC	TTT	TCC	ATC	TTT	ACA	AAC	CAG	GTG
E	G	E	N	A	E	L	Q	C	S	F	S	I	F	T	N	Q	V
171			180			189			198			207			216		
CAG	TGG	TTT	TAC	CAA	CGT	CCT	GGG	GGA	AGA	CTC	GTC	AGC	CTG	TTG	TAC	AAT	CCT
Q	W	F	Y	Q	R	P	G	G	R	L	V	S	L	L	Y	N	P
225			234			243			252			261			270		
TCT	GGG	ACA	AAG	CAG	AGT	GGG	AGA	CTG	ACA	TCC	ACA	ACA	GTC	ATT	AAA	GAA	CGT
S	G	T	K	Q	S	G	R	L	T	S	T	T	V	I	K	E	R
279			288			297			306			315			324		
CGC	AGC	TCT	TTG	CAC	ATT	TCC	TCC	TCC	CAG	ATC	ACA	GAC	TCA	GGC	ACT	TAT	CTC
R	S	S	L	H	I	S	S	S	Q	I	T	D	S	G	T	Y	L
333			342			351			360			369			378		
TGT	GCC	TCA	AAT	TCT	GGA	GGA	AGC	AAT	GCA	AAG	CTA	ACC	TTC	GGG	AAA	GGC	ACT
C	A	S	N	S	G	G	S	N	A	K	L	T	F	G	K	G	T
387			396			405			414			423			432		
AAA	CTC	TCT	GTT	AAA	TCA	GGT	GGC	GGA	GGG	TCT	GGC	GGG	GGT	GGG	TCC	GGG	GGT
K	L	S	V	K	S	G	G	G	G	S	G	G	G	G	S	G	G
441			450			459			468			477			486		
GGA	GGC	TCA	GAG	GCT	GCA	GTC	ACC	CAA	AGC	CCA	AGA	AAC	AAG	GTG	GCA	GTA	ACA
G	G	S	E	A	A	V	T	Q	S	P	R	N	K	V	A	V	T
495			504			513			522			531			540		
GGA	GGA	AAG	GTG	ACA	TTG	AGC	TGT	AAT	CAG	ACT	AAT	AAC	CAC	AAC	AAC	ATG	TAC
G	G	K	V	T	L	S	C	N	Q	T	N	N	H	N	N	M	Y
549			558			567			576			585			594		
TGG	TAT	CGG	CAG	GAC	ACG	GGG	CAT	GGG	CTG	AGG	CTG	ATC	CAT	TAT	TCA	TAT	GGT
W	Y	R	Q	D	T	G	H	G	L	R	L	I	H	Y	S	Y	G
603			612			621			630			639			648		
GCT	GGC	AGC	ACT	GAG	AAA	GGA	GAT	ATC	CCT	GAT	GGA	TAC	AAG	GCC	TCC	AGA	CCA
A	G	S	T	E	K	G	D	I	P	D	G	Y	K	A	S	R	P

UX

LINKER

U12

AGC CAA GAG AAC TTC TCC CTC ATT TTG GAG TCG GGT ACC TCC TGT GAT ACA TGA  
 ...  
 S Q E N F S L E L A T P S T S

711 720 729 738 747 756  
 GTG TAC TTC TGT GCC AGC GGT GAG ACA GGG ACC AAC GAA AGA TTA TTT TTC GGT  
 ...  
 V Y F C A S G E T G T N E R L F F G

765 774 783 ~~4PE~~ 792 801 810  
 CAT GGA ACC AAG CTG TCT GTC CTG ACT AGT AAC TCC ATC ATG TAC TTC AGC CAC  
 ...  
 H G T K L S V L T S N S I M Y F S H

819 828 837 846 855 864  
 TTC GTG CCG GTC TTC CTG CCA GCG AAG CCC ACC ACG ACG CCA GCG CCG CGA CCA  
 ...  
 F V P V F L P A K P T T T P A P R P

873 882 891 900 909 918  
 CCA ACA CCG GCG CCC ACC ATC GCG TCG CAG CCC CTG TCC CTG CGC CCA TCT AGT  
 ...  
 P T P A P T I A S Q P L S L R P S S

1001 927 936 945 954 963 972  
 TCT AGA GAT CCC AAA CTC TGC TAC CTG CTG GAT GGA ATC CTC TTC ATC TAT GGT  
 ...  
 S R D P K L C Y L L D G I L F I Y G

981 990 999 1008 1017 1026  
 GTC ATT CTC ACT GCC TTG TTC CTG AGA GTG AAG TTC AGC AGG AGC GCA GAC GCC  
 ...  
 V I L T A L F L R V K F S R S A D A

1035 1044 1053 1062 1071 1080  
 CCC GCG TAC CAG CAG GGC CAG AAC CAG CTC TAT AAC GAG CTC AAT CTA GGA CGA  
 ...  
 P A Y Q Q G Q N Q L Y N E L N L G R

1089 1098 1107 1116 1125 1134  
 AGA GAG GAG TAC GAT GTT TTG GAC AAG AGA CGT GGC CGG GAC CCT GAG ATG GGG  
 ...  
 R E E Y D V L D K R R G R D P E M G

1143 1152 1161 1170 1179 1188  
 GGA AAG CCG AGA AGG AAG AAC CCT CAG GAA GGC CTG TAC AAT GAA CTG CAG AAA  
 ...  
 G K P R R K N P Q E G L Y N E L Q K

1197 1206 1215 1224 1233 1242  
 GAT AAG ATG GCG GAG GCC TAC AGT GAG ATT GGG ATG AAA GGC GAG CGC CGG AGG  
 ...  
 D K M A E A Y S E I G M K G E R R R

1251 1260 1269 1278 1287 1296  
 GGC AAG GGG CAC GAT GGC CTT TAC CAG GGT CTC AGT ACA GCC ACC AAG GAC ACC  
 ...  
 G K G H D G L Y Q G L S T A T K D T

1305 1314 1323 1332 1341 1350  
 TAC GAC GCC CTT CAC ATG CAG GCC CTG CCC CCT CGC TAA GCG GCG GCG ACC GCG  
 ...  
 Y D A L H M Q A L P P R A A A T A

FIGURE

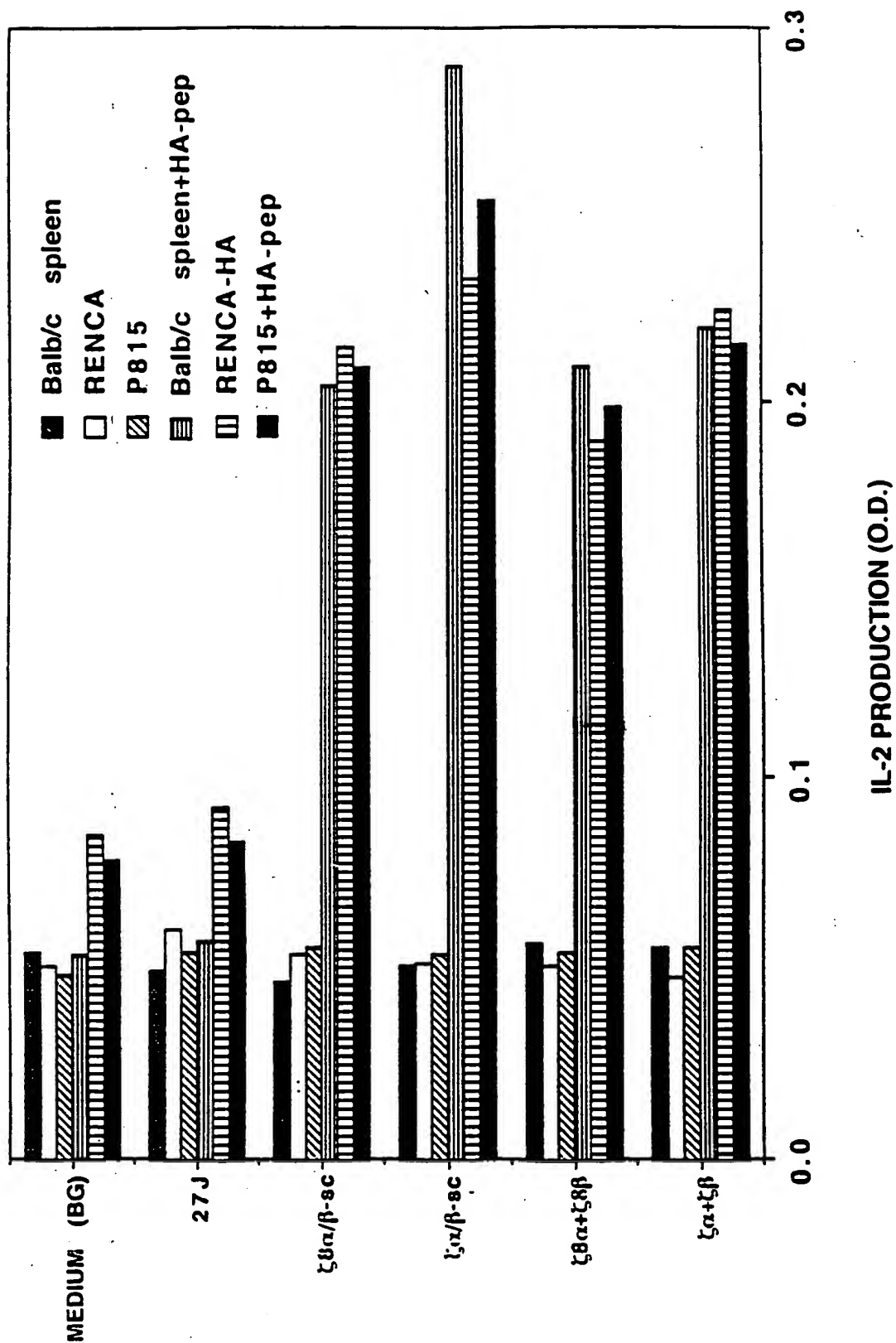
3B

013

CDS HINGE

2 chain

STOP



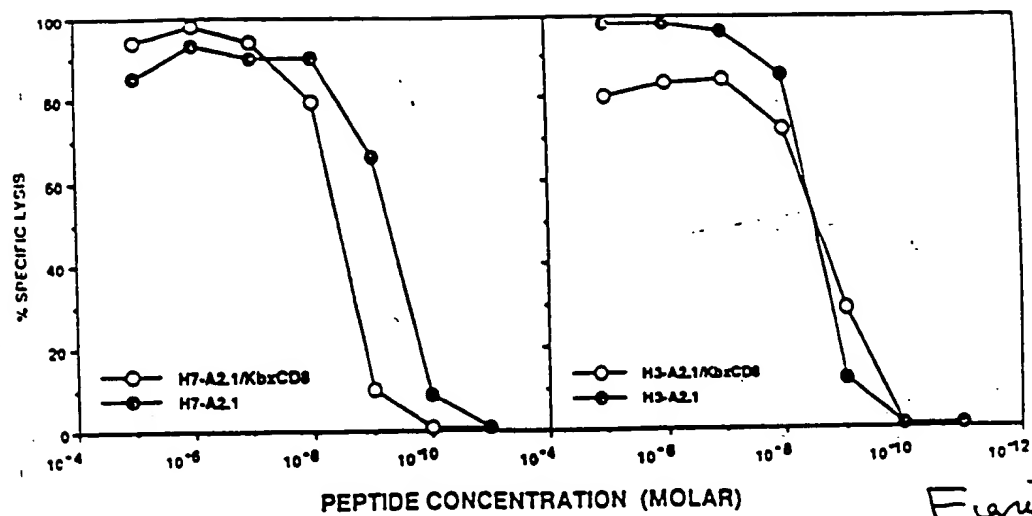


Figure 5

Va1 CCC AAG GCA CTG ATG TTC ATG  
Va2 TGA GAC AAA GTC CCC AAT CTG CAG  
Va3 CTG CAG CTG CTC CTC AAG TAC TAT TC  
Va4.1.2.3 TCC CGG AGA AGG TCC ACA GTT CCT CTT T  
Va4.4 GAA GCA GCA GAG GGT TTG AAG CCA CAT AC

2.  
Va5 GGC AGG TCT TCA GTT GCT TAT GAA GGT  
Va6 GGT TCC TCT TCA GGG TCC AGA ATA TGT  
Va7 GCG AAG AAC TCA CCC TGG ACT GTT CAT  
Va8 GAG CTC CAC AGA CAA CAA GAG GAC CGA GCA  
Va9 GAG CTG CGA CGT TCC TTA GTG ACT GTG

3.  
 Val10 CCT CGT CAG CCT GTT GTC CAA TCC TTC TGG  
 Val11 CAG CCT CAT CAA TCT GTT CTA CTT GGC T  
 Val12 CCA CCA GGG ACC ACA GTT TAT CAT TCA A  
 Val14 ACC TGG AGA GAA TCC TAA GCT CAT CAT  
 Val15 AGG TCT TGT GTC CCT GAC AGT CCT GGT T

4.  
 Val6 CAA GCA AAC ACT GTA GTG CAG AGC CCT TCC  
 Val7 CAA GAC ATC CAT AAC TGC CCT ACA G  
 Val8 GTG TAT GAA ACC CAG GAC AGT TCT TAC  
 Val9 CCG TAT TTC TTT CTT ATG TTG TTT TGG AT  
 Val20 CAA AGC TCT CCA TCG CTG ACT GTT CAA G

## Beta Groups

1.   
 VB1 ATC TAA TCC TGG GAA GAG CAA AT  
 VB2 GGC GTC TGG TAC CAC GTG GTC AA  
 VB3 GTG AAA GGG CAA GGA CAA AAA GC  
 VB4 GAT ATG CGA ACA GTA TCT AGG C  
 VB5.1 ACA TAA TCA AAG GAA AGG GAG AA

2.  
vB6 TCC TGA TTG GTC AGG AAG GGC AA  
vB7 TAC CTG ATC AAA AGA ATG GGA GA  
vB8.1 ATA ACC ATG ACA ATA TGT ACT GG  
vB8.2 ATA ACC ACA ACA ATA TGT ACT GG  
vB8.3 ATA GCC ACA ACT ACA TGT ACT GG

3.  
VB9 AGC TTG CAA GAG TTG GAA AAC CA  
VB10 GAT TAT GTT TAG CTA CAA TAA TA  
VB11 ACA AGG TGA CAG GGA AGG GAC AA  
VB12 ACC TAC AGA ACC CAA GGA CTC AG  
VB13 CAG TTG CCC TCG GAT CGA TTT TC

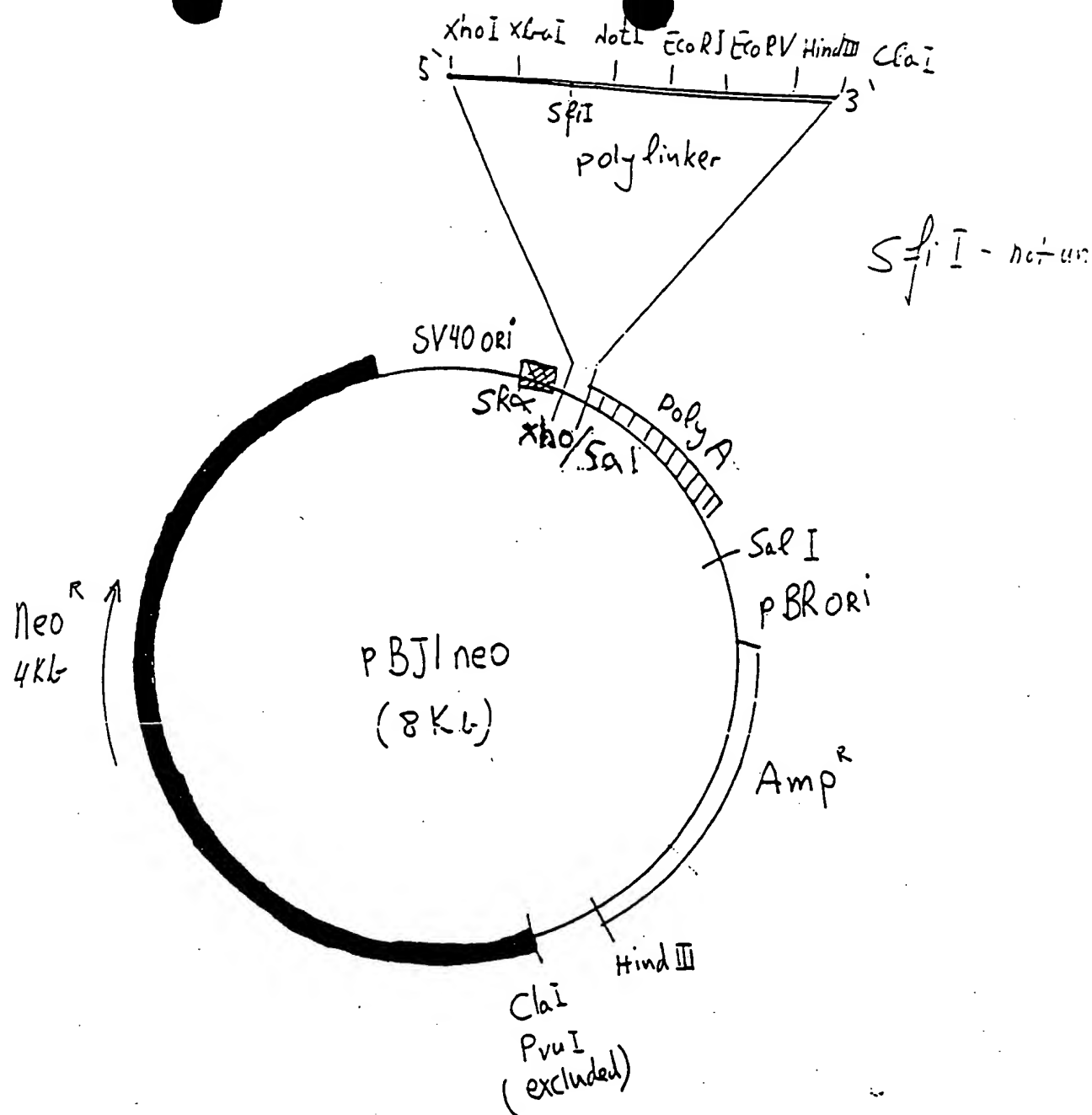
4.  
Vβ14 GCC GAG ATC AAG GCT GTG GGC AG  
Vβ15 AGA ACC ATC TGT AAG AGT GGA AC  
Vβ16 CAT CAA ATA ATA GAT ATG GGG CA  
Vβ17 GTA GTC CTG AAA AAG GGC ACA CT  
Vβ18 CAT CTG TCA AAG TGG CAC TTC A

[illegible]



FIG 7B

		387			396			
CCC	GGC	ACC	AGG	CTC	ACG	GTT	TCT	3'
---	---	---	---	---	---	---	---	
Pro	Gly	Thr	Arg	Leu	Thr	Val	Ser	



Ref:

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